

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 – 15 (canceled)

16. (currently amended) A device for producing a saturated or concentrated solution of iodine, comprising:

a pouch or sachet comprising an iodine vapor and water vapor-permeable porous membrane, wherein the membrane is substantially impermeable to liquids or solids sealed by a melt sealer or adhesive means into a sachet or pouch;

an iodine source contained within said sachet or pouch;

an iodine-receiving medium;

a vessel containing the iodine-receiving medium;

a suitable means for providing controlled flow, where desired, of the iodine-receiving medium;

a suitable means of supplying agitation of the receiving medium;

a suitable means of heating or cooling and temperature control of the receiving medium, where required for the intended end-use;

a suitable means for controlling the pressure in the receiving medium, where required for the intended end-use; and

a suitable means for removing a measured volume of iodine solution from the vessel in batch or continuous mode.

17. (original) The device of claim 16 wherein the iodine vapor-permeable membrane is an inorganic material.

18. (original) The device of claim 16 wherein the iodine vapor-permeable membrane is

single ply.

19. (original) The device of claim 16 wherein the iodine vapor-permeable membrane is multi-ply construction wherein the plies are the same or different composition and structure.

20. (original) The device of claim 16 wherein the iodine vapor-permeable membrane is a continuous film.

21. (original) The device of claim 16 wherein the iodine vapor-permeable membrane is non-woven.

22. (currently amended) The device of claim 16 wherein the iodine vapor-permeable membrane has a pore size of less than 5 microns ~~is a nanostructure~~.

23. (original) The device of claim 16 wherein the iodine vapor-permeable membrane is perforated.

24. (original) The device of claim 16 wherein the membrane material is substantially non-permeable to solid iodine.

25. (original) The device of claim 16 that can produce controlled or blended iodine solutions of any strength up to the saturation level.

Claims 26 – 31 (canceled)